

Sub D10

80. (New) A method for detecting the presence of a mammalian Presenilin protein in a biological sample, the method comprising:

(i) contacting the biological sample with an antibody as defined in claim

73,

(ii) incubating the sample and the antibody under conditions to induce binding of the antibody to the sample to form a complex,

(iii) separating the complex from the sample, and

(iv) detecting the complex.

81. (New) The method as defined in claim 80, wherein the mammalian Presenilin protein has a sequence as depicted in SEQ ID NOs: 2, 4, 134, 136, or 137.

### REMARKS

Entry of the foregoing amendment is respectfully requested. Claims 1-72 have been cancelled, without prejudice. New claims 73-81 are directed to antibodies of the disclosed proteins.

Support for these new claims can be found throughout the specification. Support for percent sequence identity in claim 73 can be found on page 28, lines 27-30 ? of the specification. Description of the listed sequences in claims 73-75 and 81 can be found in the original claims (e.g., claims 2, 4, 21, and 25) and in the specification on page 4, lines 23-27; page 24, lines 2-7; and page 28, lines 11-14. Support for an antibody, as defined in claim 75, that recognizes an amino acid sequence of at least six amino acid residues can be found on page 5, lines 18-25. A description of the antigenic

fragments in claim 76 can be found on page 66, lines 1-5. Disclosure of the monoclonal and humanized antibodies (claims 77 and 78) and hybridomas for producing the claimed antibody (claim 79) can be found in original claims 33-35; page 5, lines 18-25; page 45, line 8 to page 47 line 10; page 47, line 27 to page 48, line 6; and page 65, line 17 to page 11. Support for detecting the presence of a mammalian Presenilin protein in a biological sample can be found in original claim 36; page 5, line 30 to page 6, line 5; page 37, lines 17-23; and page 46, lines 22-27.

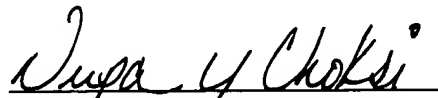
No new matter has been added by these amendments.

### **CONCLUSIONS**

In view of the foregoing amendments and remarks, the present claims are believed to be patentable and in condition for allowance, and such action is earnestly solicited.

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Respectfully submitted,



Neepa Y. Choksi, Ph.D.  
Registration No. 47,488  
Agent for Applicant(s)